

"THE H-BOMB SECRET" RECONSIDERED

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HOWARD Morland's "The H-Bomb Secret" is reconsidered. It is conclusively shown that all features of his design had previously been disclosed by various private and Government authorities. Furthermore, it is shown that the many errors in his design make it difficult to substantiate any claim that it was Morland's act of assembling a large number of heretofore unrelated concepts which posed the threat to national security.

Functions of various weapons components are clarified, and bibliographic citations are provided for in depth consideration. Some errors in Morland's design are rectified, including his erroneous assumptions that photon diffusion occurs at the speed of light in a vacuum, that x-rays are "reflected" from the weapon casing, that exploding foam is the predominant implosion inducing mechanism for the fusion fuel capsule, and his incorrect assumption that variation in the amount of D-T added to the core of the primary system is the primary means by which the "dial-a-yield" feature is realized.

Introduction

Since this paper deals with the very sensitive topic of thermonuclear weapon design, fabrication and operation, it is necessary and proper for me to explain why I have written it. My primary objective is to show that Howard Morland's article "*The H-Bomb Secret*" should not have been temporarily suppressed by the Federal government in 1979 because the article was composed solely of publically available information, and because the article was seriously in error in its depiction of the design and operation of thermonuclear explosives. My secondary objective is the conclusive demonstration that thermonuclear terrorism is technologically feasible today, a fact which has grave national security implications.

All of the information appearing *infra* has been compiled from publically available materials as part of an ongoing literature search effort in the field of nuclear insurgency. Pursuant to U.S. v. HEINE and correspondence from the United States Department of Energy, it is my belief that this document's contents are unclassified and unlimited. Every effort has been made to strike a judicious balance between the need to provide sufficient information to insure credibility and the

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